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AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

- 1. (Currently Amended) An autonomous in-vivo device having a longitudinal axis of symmetry comprising:
 - an image sensor <u>positioned to acquire images through a window in a housing of</u>
 <u>the device</u>; and
 - a ballast located off the longitudinal axis <u>of symmetry</u>, wherein <u>so that</u> said device has a center of gravity displaced from the longitudinal axis <u>of symmetry</u> toward said window.
- 2. (Original) The device as in claim 1, wherein said ballast is capable of orienting said in-vivo device to a known orientation.
- 3. (Cancelled)
- 4. (Previously Presented) The device as in claim 1, comprising an optical system located on a transverse side of said in-vivo device displaced from said longitudinal axis of symmetry.
- 5. (Original) The device as in claim 4, comprising an optical system on an axial portion of said device.
- 6. (Original) The device as in claim 4, wherein an outer shell of said device comprises said optical system.
- 7. (Previously Presented) The device as in claim 4, wherein said optical system comprises a magnifying device.
- 8. (Previously Presented) The device as in claim 4, wherein said optical system is to collect light reflected from a wide angle of said in-vivo area.
- 9. (Original) The device as in claim 1, wherein said ballast is to re-orient said in vivo device in response to a movement of a body within which said in-vivo device is located.
- 10. (Original) The device as in claim 1, wherein said ballast is to change an orientation of said device in response to a magnetic field.

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- 11. (Original) The device as in claim 1, wherein said ballast comprises an active component of said imaging device.
- 12. (Previously Presented) The device as in claim 1, comprising a first optical system facing parallel to an axial direction and a second optical system facing perpendicular to said axial direction.
- 13. (Currently Amended) An in vivo imaging device comprising:
 - a first imager and first optical system to image in a direction parallel to an axial portion of said in vivo imaging device; [[and]]
 - a second imager and second optical system to image in a direction parallel to a transverse portion of said imaging device; and
 - a ballast located off a longitudinal axis of symmetry of the device, wherein said device has a center of gravity displaced from the longitudinal axis of symmetry in the direction of an in vivo area being imaged.
- 14. (Cancelled)
- 15. (Original) The device as in claim 13, comprising a curved mirror.
- 16. (Original) The device as in claim 13, wherein said second optical system is to direct light reflected from a circular field of view.
- 17. (Original) The device as in claim 13, wherein said second optical system is configured to direct light reflected off a ring shaped slice of an in-vivo area.
- 18. (Original) The device as in claim 13, wherein:
 - said first optical system is to collect light reflected from a first in-vivo area in front of said axial portion of said device; and
 - said second optical system is to collect light reflected from a second in-vivo area parallel to said transverse portion of said imaging device.
- 19. (Previously Presented) The device as in claim 13, comprising a transmitter to transmit image data collected by said first and second imagers.
- 20. (Original) The device as in claim 19, wherein said transmitter is configured to transmit said data on more than one channel.
- 21. (Original) The device as in claim 13, wherein said device is configured to be swallowed.

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- 22. (Original) The device as in claim 13, wherein said second optical system is configured to capture light from a field of view of at least 180 degrees.
- 23. (Original) The device as in claim 13, wherein said second optical system comprises a magnifying lens.
- 24. (Original) The device as in claim 13, wherein said second optical system comprises a transparent ring-shaped shell.
- 25. (Cancelled)
- 26. (Cancelled)
- 27. (Cancelled)
- 28. (Cancelled)
- 29. (Currently Amended) A method of in vivo imaging, comprising:

orienting an autonomous in-vivo imaging device with a ballast; and capturing an image of an in-vivo area perpendicular to a longitudinal axis of symmetry of the device, wherein said ballast is on substantially the same side of the longitudinal axis of the device as the in vivo area imaged.

- 30. (Original) The method as in claim 29, comprising moving a body wherein said device is located.
- 31. (Original) The method as in claim 29, wherein said capturing comprises capturing an image of an area surrounding a transverse portion of said device.
- 32. (Original) The method as in claim 29, comprising positioning a body wherein said device is located.
- 33. (Previously Presented) The device of claim 4, wherein said optical system is directed to capture an image of an in vivo area perpendicular to said longitudinal axis of symmetry.
- 34. (New) The device of claim 1, wherein said ballast is positioned around said window.
- 35. **(New)** The device of claim 1, comprising an optical system located on a transverse side of said in-vivo device displaced from said longitudinal axis of symmetry.
- 36. (New) The device of claim 1, wherein said window is on a side of said device on the longitudinal axis of symmetry.
- 37. (New) The device of claim 1, wherein said window is on a side of said device transverse to the longitudinal axis of symmetry.

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38. (New) The device of claim 35, wherein said optical system comprises a magnifying device.

- 39. (New) The device of claim 13, wherein said second imager is positioned to image an in vivo area through a window in said imaging device.
- 40. (New) The device of claim 39, wherein said ballast is positioned around said window.
- 41. (New) The device of claim 13, comprising an optical system located on a transverse side of said in-vivo device displaced from said longitudinal axis of symmetry.
- 42. (New) The device of claim 41, wherein said optical system comprises a magnifying device.